

What is claimed is:

1. An air conditioning system comprising:

a compressor that compresses a refrigerant and is capable of changing a flow rate of the refrigerant to be discharged; and

an evaporator for evaporating the refrigerant to cool air, the evaporator arranged in a casing that forms a passage to direct air into a vehicle cabin, wherein

when the refrigerant flow rate discharged from the compressor in operation remains smaller than or equal to a predetermined flow rate substantially over a first predetermined time from when the refrigerant discharge flow rate falls to or below the predetermined flow rate, the compressor is operated so that the refrigerant discharge flow rate becomes greater than the predetermined flow rate at least over a second predetermined time that is shorter than the first predetermined time.

2. An air conditioning system comprising:

a compressor for compressing a refrigerant, the compressor being capable of changing a refrigerant discharge flow rate; and

an evaporator for evaporating the refrigerant to cool air, the evaporator being arranged in an air conditioning casing that forms a passage of air to discharge into a cabin, wherein

after the flow rate of the refrigerant discharged from the compressor remains smaller than or equal to a predetermined flow rate substantially over a first predetermined time from when the discharge flow rate of the refrigerant falls to or below the predetermined flow rate, intermittent operation mode is performed

at every first predetermined time, in the intermittent operation mode the compressor operates so that the discharge flow rate of the refrigerant becomes greater than the predetermined flow rate over a second predetermined time that is shorter than the first predetermined time.

3. The air conditioning system according to claim 1, wherein the total amount of refrigerant discharge during the second predetermined time is reduced according to an increase in the temperature of air introduced into the air conditioning casing.

4. The air conditioning system according to claim 1, wherein the total amount of refrigerant discharge during the second predetermined time is reduced according to an increase in the humidity of air introduced into the air conditioning casing.

5. The air conditioning system according to claim 1, wherein the total amount of refrigerant discharge during the second predetermined time is reduced according to a decrease in the rate of air flowing through the air conditioning casing.

6. The air conditioning system according to claim 1, wherein when in inside air circulation mode for introducing cabin air into the air conditioning casing, the total amount of refrigerant discharge during the second predetermined time is made smaller than in outside air introduction mode for introducing outside air into the air conditioning casing.

7. The air conditioning system according to claim 1, wherein when in inside air circulation mode for introducing cabin air into the air conditioning casing, the total amount of refrigerant discharge during the second predetermined time is reduced according to a decrease in the amount of insolation into the cabin.

8. The air conditioning system according to claim 2, wherein the total amount of refrigerant discharge during the second predetermined time is reduced according to an increase in the temperature of air introduced into the air conditioning casing.

9. The air conditioning system according to claim 2, wherein the total amount of refrigerant discharge during the second predetermined time is reduced according to an increase in the humidity of air introduced into the air conditioning casing.

10. The air conditioning system according to claim 2, wherein the total amount of refrigerant discharge during the second predetermined time is reduced according to a decrease in the rate of air flowing through the air conditioning casing.

11. The air conditioning system according to claim 2, wherein when in inside air circulation mode for introducing cabin air into the air conditioning casing, the total amount of refrigerant discharge during the second predetermined time is made smaller than in outside air introduction mode for introducing outside air into the air conditioning casing.

12. The air conditioning system according to claim 2, wherein when in inside air circulation mode for introducing cabin air into the air conditioning casing, the total amount of refrigerant discharge during the second predetermined time is reduced according to a decrease in the amount of insolation into the cabin.